

# Improvements connected with the construction of tubular poles

Publication number: GB629078

Publication date: 1949-09-09

Inventor:

Applicant: CYRIL HARCOURT MATTHEWS

Classification:

- International: B21C37/10; B21C37/15; E04H12/08; B21C37/06;  
B21C37/15; E04H12/00;

- european: B21C37/10E; B21C37/15; E04H12/08

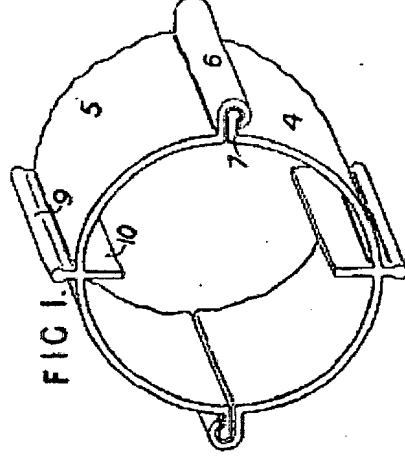
Application number: GB19470028821 19471029

Priority number(s): GB19470028821 19471029

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## Abstract of GB629078

629,078. Tubular poles. MATTHEWS, C. H. Oct. 29, 1947, No. 28821. [Class 20(i)] [Also in Group XXVIII] A tubular pole comprises two sections 4, 5 each having formed at one edge a tongue 6 and at the other edge a tongue 7 adapted to slide into the tongue 6 on the other section. Stiffening-webs 9, 10 may be provided, and the tongues and grooves may be inwardly extending. According to the Provisional Specification, the sections may be octagonal or hexagonal.



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# PATENT SPECIFICATION

629,078



Application Date: Oct. 29, 1947.

No. 28821/47.

Complete Specification Left: Oct. 4, 1948.

Complete Specification Accepted: Sept. 9, 1949.

Index at acceptance:—Classes 20(i), H1(f:j); and 99(ii), H7.

## PROVISIONAL SPECIFICATION

### Improvements connected with the Construction of Tubular Poles

I, CYRIL HARCOURT MATTHEWS, a British Subject, of 42, Fields Park Road, Newport, in the County of Monmouth, do hereby declare the nature of this invention to be as follows:—

This invention comprises improvements connected with the construction of tubular structures of the type in which such structures are built up from two or more interlocking parts.

The object of the present invention is to provide a section which is adapted to interlock with one or more similar sections which are preferably formed by extrusion, although such a section may be formed by casting, pressing or in any other suitable manner.

The present invention is characterized by a section which is adapted to form part of a tubular structure having formed at one edge a female tongue, whilst on the other edge of said section is formed a male tongue which is adapted to slide into a female tongue on a similar section.

In carrying the present invention into practice, the section preferably comprises half of the tubular structure and is of substantially a semi-circular shape. The one edge of said section is formed to substantially a C-shape in cross-section, said C-shaped part extending outwardly or inwardly as desired along the whole length of the section forming a female tongue, whilst the opposite edge is pro-

vided with an outwardly or inwardly extending tongue part having a heading at its edge which is adapted to interlock within the female tongue formed on a complementary section.

Two such sections are positioned so that the male tongue part will engage the female tongue part when the two parts are slid relatively into one another, thus interlocking and forming a tubular structure.

At a position mid-way between the two ends of said section, an internal and external web may be provided, if desired, which are adapted to extend the whole length of the section, to give additional strength thereto.

If desired, the section may be of such a shape as to give an octagonal, hexagonal or other shape to the tubular structure, whilst instead of forming said tubular structure from two sections, more than two sections may be provided which are adapted to interlock as heretofore described to form the complete structure.

A tubular structure according to this invention is particularly adapted for use as a telegraph pole.

Dated this 28th day of October, 1947.

NORMAN S. BARLOW,  
Chartered Patent Agent,  
Agent for Applicant.

## COMPLETE SPECIFICATION

### Improvements connected with the Construction of Tubular Poles

I, CYRIL HARCOURT MATTHEWS, a British Subject, of 42, Fields Park Road, Newport, in the County of Monmouth, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention comprises improvements connected with the construction of tubular poles of the type in which such poles are built up from interlocking sections.

The object of the present invention is to provide an improved pole of the specified type.

It has been proposed in a sectional sheet metal culvert to provide one section of said culvert with male tongues, whilst the other section of said culvert is formed with female tongues, the one section being adapted to slide into the other, and to such I make no claim.

The present invention comprises a construction of tubular pole which is characterized by two sections forming a tubular structure each section having formed at one edge a female tongue, whilst on the other edge of each section is formed a male tongue which is adapted to slide into the female tongue on the other section. Referring to the accompanying drawing:—

Figure 1 is a perspective view of a tubular structure built up from sections according to this invention, and

Figure 2 is a perspective view of a tubular structure built up from a modified form of section according to this invention.

In carrying the present invention into practice as shown upon the accompanying drawing in which two similar sections are interlocked together to form a tubular structure, each section 4, 5 comprises half of the tubular structure and is of substantially semi-circular shape. The one edge 6 of each of said sections is formed to substantially a C-shape in cross-section, said C-shaped part 6 extending outwardly as shown in Figure 1 or inwardly as shown in Figure 2, as desired, along the whole length of the section forming a female tongue, whilst the opposite edge is provided with an outwardly, as shown in Figure 1, or inwardly, as shown in Figure 2, extending tongue part 7 having a beading 8 at its edge which is adapted to interlock within the female tongue 6 formed on the complementary section.

The male tongue part 7, 8 engages the female tongue part 6 when the two sections 5, are slid relatively into one another as shown in the drawings, thus interlocking and forming a tubular structure.

At a position midway between the two ends of said sections 4, 5, internal and external webs 9, 10 may be provided, if desired, which are adapted to extend the whole length of the sections, to give additional strength thereto.

In Figure 2 an interior web 10 only is shown, since, if desired, only one of said webs on each section may be used.

A tubular structure according to this invention is particularly adapted for use as a telegraph pole.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A tubular pole, characterized by two sections forming a tubular structure each section having formed at one edge a female tongue, whilst on the other edge of each section is formed a male tongue which is adapted to slide into the female tongue on the other section.

2. A tubular pole according to claim 1, having an outwardly extending female tongue along the one edge of each section and an outwardly extending male tongue along the other edge of the section which is adapted to slide into the female tongue of the other section.

3. A tubular pole according to claim 1, having an inwardly extending female tongue along the one edge of each section and an inwardly extending male tongue along the other edge of the section which is adapted to slide into the female tongue of the other section.

4. A telegraph pole constructed from sections according to any of the preceding claims.

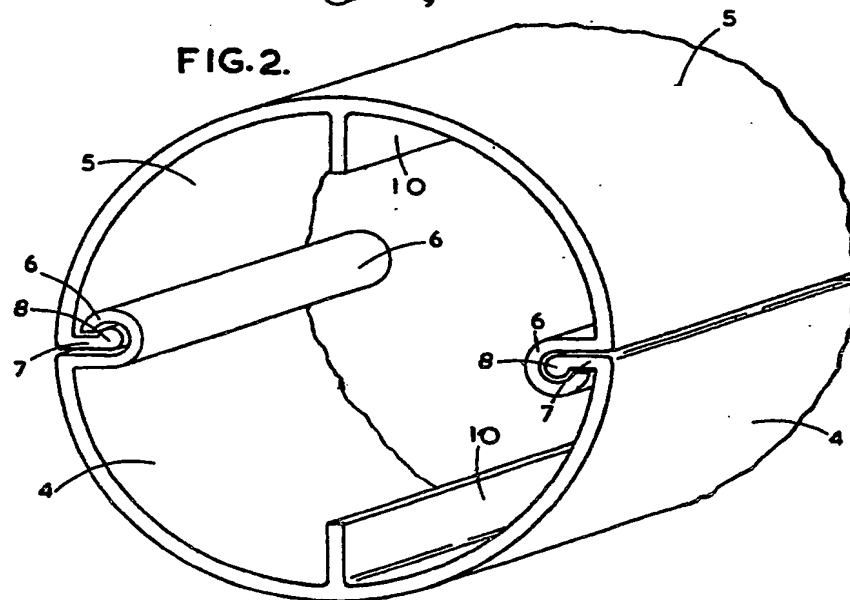
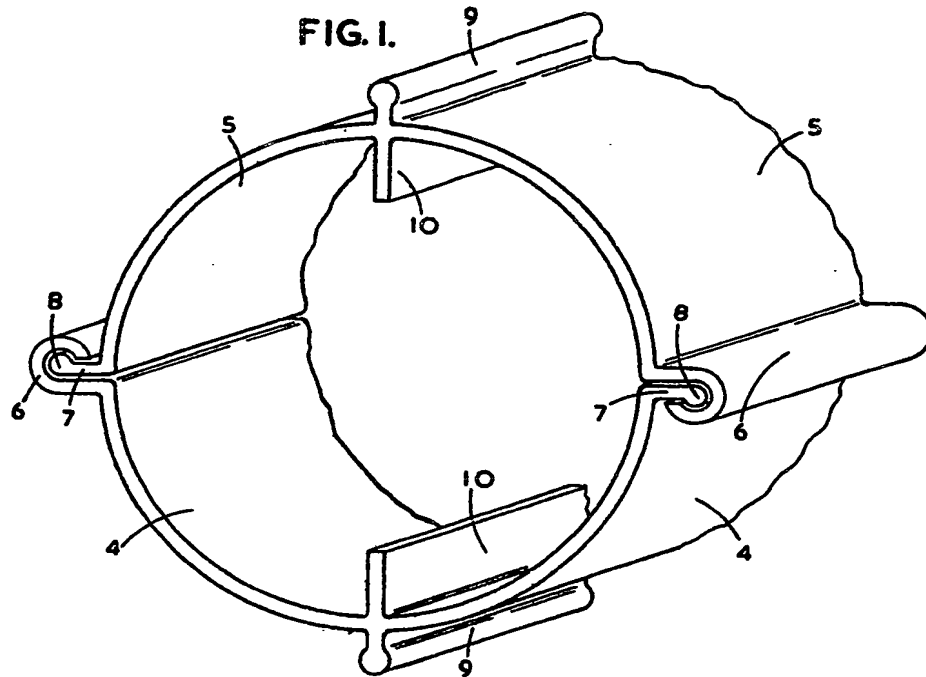
5. The improved tubular pole substantially as described and illustrated upon the accompanying drawing at Figure 1.

6. The improved tubular pole substantially as described and illustrated upon the accompanying drawing at Figure 2.

Dated this 2nd day of October, 1948.

NORMAN S. BARLOW,  
Chartered Patent Agent,  
Agent for Applicant.

[This Drawing is a reproduction of the Original on a reduced scale.]



H.M.S.O. (Ty.P.)

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